

Client's ref.:A91339
File:0535-9534US/final

/Nick/Steve

What is claimed is:

- 1 1. A mobile phone comprising:
2 a body including a first engaging portion; and
3 a battery including a second engaging portion,
4 wherein the battery is rotated to a
5 predetermined position by means of the first
6 engaging portion and the second engaging
7 portion and is thereby fixed on the body.
- 1 2. The mobile phone as claimed in claim 1, wherein
2 the first engaging portion is a groove, and the second
3 engaging portion is a protrusion sliding in the groove.
- 1 3. The mobile phone as claimed in claim 2, wherein
2 the body further includes a notch for inserting the
3 protrusion into the groove.
- 1 4. The mobile phone as claimed in claim 1, wherein
2 the body further includes a first fixed assembly, the
3 battery further includes a first fixed portion
4 corresponding to the first fixed assembly, and the
5 battery is positioned on the body by the first fixed
6 assembly and the first fixed portion.
- 1 5. The mobile phone as claimed in claim 4, wherein
2 the first fixed assembly comprises:
3 a ball abutted by the first fixed portion in an
4 elastic manner; and
5 a first elastic member, connected to the ball, for
6 moving the ball in a predetermined range.

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1 6. The mobile phone as claimed in claim 4, wherein
2 both the first fixed assembly and the first fixed portion
3 are magnets respectively.

1 7. The mobile phone as claimed in claim 4, wherein
2 the body further includes a second fixed assembly, the
3 battery further includes a second fixed portion
4 corresponding to the second fixed assembly, and the
5 battery is positioned on the body by the second fixed
6 assembly and the second fixed portion.

1 8. The mobile phone as claimed in claim 7, wherein
2 the second fixed assembly comprises:
3 a stopper abutted by the second fixed portion in an
4 elastic manner; and
5 a second elastic member, connected to the stopper,
6 for moving the stopper in a predetermined
7 range.

1 9. The mobile phone as claimed in claim 8, wherein
2 the second fixed portion is a ratchet.

1 10. The mobile phone as claimed in claim 7, wherein
2 the second fixed assembly is a cantilever.

1 11. The mobile phone as claimed in claim 7, wherein
2 the body further includes a battery bay for receiving the
3 battery, and the first fixed assembly and the second
4 fixed assembly are located at opposite corners of the
5 battery bay.

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1 12. The mobile phone as claimed in claim 1, wherein
2 the body is formed with a positioning hole, the battery
3 includes a shaft corresponding to the positioning hole,
4 and the battery rotates relative to the body by inserting
5 the shaft into the positioning hole.

1 13. The mobile phone as claimed in claim 1, wherein
2 the body is formed with a shaft, the battery includes a
3 positioning hole corresponding to the shaft, and the
4 battery rotates relative to the body by inserting the
5 shaft into the positioning hole.

1 14. The mobile phone as claimed in claim 1, wherein
2 the body includes a first connector, the battery includes
3 a second connector corresponding to the first connector,
4 and the battery is electrically connected to the body by
5 the first connector contacting the second connector.

1 15. A device for fixing a battery of an electric
2 apparatus, wherein the electric apparatus includes a body
3 and the battery detachably disposed in the body, and the
4 device comprises:

5 a first engaging portion integrally formed on the
6 body; and

7 a second engaging portion integrally formed on the
8 battery, wherein the battery is rotated to a
9 predetermined position by means of the first
10 engaging portion and the second engaging
11 portion and is thereby fixed on the body.

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1 16. The device as claimed in claim 15, wherein the
2 first engaging portion is a groove, and the second
3 engaging portion is a protrusion sliding in the groove.

1 17. The device as claimed in claim 16, wherein the
2 body further includes a notch for the protrusion entering
3 into the groove.

1 18. The device as claimed in claim 15, further
2 comprising:

3 a first fixed assembly disposed on the body; and
4 a first fixed portion, corresponding to the first
5 fixed assembly, disposed on the battery,
6 wherein the battery is positioned on the body
7 by the first fixed assembly and the first fixed
8 portion.

1 19. The device as claimed in claim 18, wherein the
2 first fixed assembly comprises:

3 a ball abutted by the first fixed portion in an
4 elastic manner; and
5 a first elastic member, connected to the ball, for
6 moving the ball in a predetermined range.

1 20. The device as claimed in claim 18, wherein both
2 the first fixed assembly and the first fixed portion are
3 magnets respectively.

1 21. The device as claimed in claim 18, further
2 including:

3 a second fixed assembly disposed on the body; and

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4 a second fixed portion, corresponding to the second
5 fixed assembly, disposed on the battery,
6 wherein the battery is positioned on the body
7 by the second fixed assembly and the second
8 fixed portion.

1 22. The device as claimed in claim 21, wherein the
2 second fixed assembly comprises:

3 a stopper abutted by the second fixed portion in an
4 elastic manner; and
5 a second elastic member, connected to the stopper,
6 for moving the stopper in a predetermined
7 range.

1 23. The device as claimed in claim 21, wherein the
2 body further includes a battery bay for receiving the
3 battery, and the first fixed assembly and the second
4 fixed assembly are located at opposite corners of the
5 battery bay.

1 24. The device as claimed in claim 15, further
2 comprising:

3 a positioning hole integrally formed on the body;
4 and
5 a shaft, corresponding to the positioning hole,
6 integrally formed on the battery, wherein the
7 battery rotates relative to the body by
8 inserting the shaft into the positioning hole.

1 25. The device as claimed in claim 15, further
2 comprising:

3 a shaft integrally formed on the body; and

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4 a positioning hole, corresponding to the shaft,
5 integrally formed on the battery, wherein the
6 battery rotates relative to the body by
7 inserting the shaft into the positioning hole.